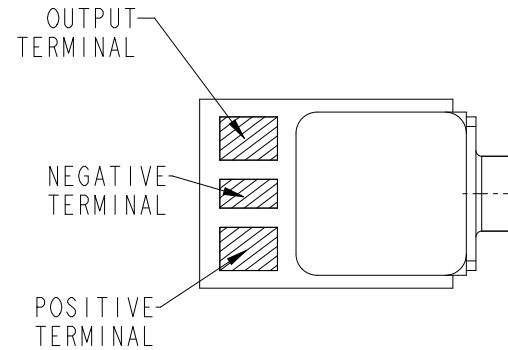
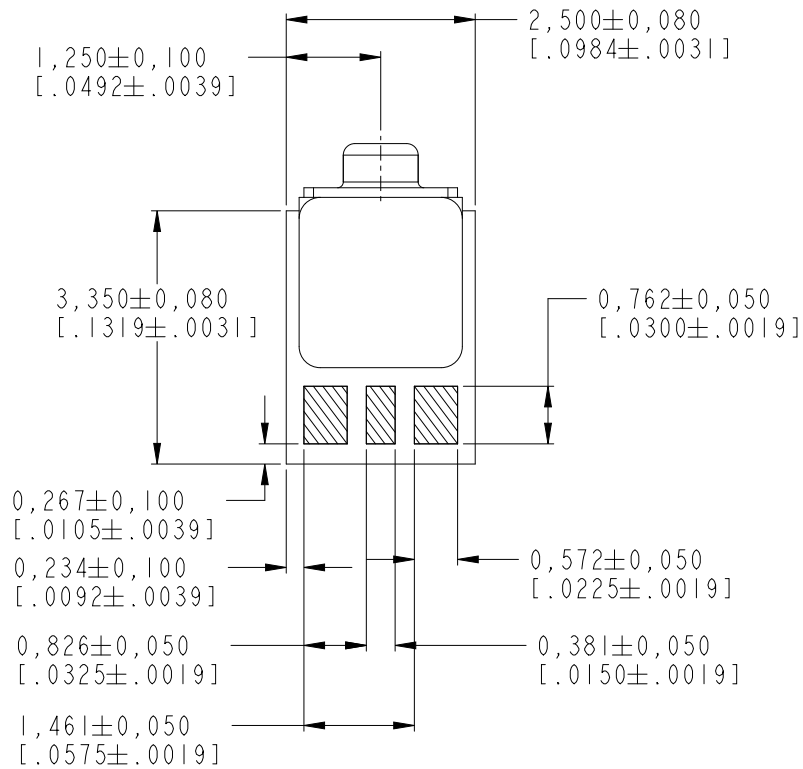
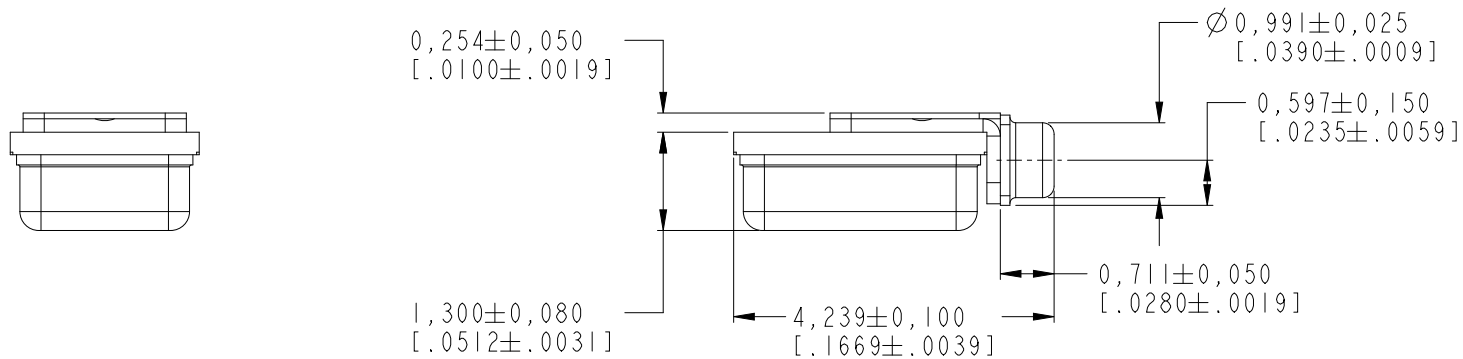


NOTES:

1. DO NOT PULL A VACUUM OR APPLY AIR PRESSURE OVER THE PORT HOLE OF THE MICROPHONE AS THIS CAN DAMAGE THE DEVICE.
2. INCREASED PRESSURE AT SOUND INLET CAUSES A POSITIVE GOING VOLTAGE TO APPEAR AT THE OUTPUT TERMINAL, RELATIVE TO THE NEGATIVE TERMINAL.

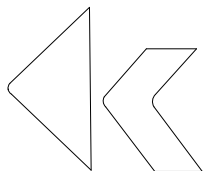


TERMINAL DEFINITION



NOMINAL WEIGHT
0.035 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]



knowles

REVISION	ECR NO.	IMP. DATE	SCALE	DR. BY	DATE
B	M10109648	1-24-23	10:1	HLD	12-13-22
A	M10109598	12-13-22		CH. BY	DATE
				GJP	12-15-22
RELEASE LEVEL		REVISION	DO NOT SCALE DRAWING	APP. BY	DATE
Active		B	DIMENSIONS IN MILLIMETERS [INCHES]	GJP	12-15-22
TITLE:			MM20-34978-000		
MICROPHONE			SHEET 1.1		
OUTLINE DRAWING			KE111ASIZE.FRM		

MM20-34978-000

Sht 2.1

RoHS Compliant

Typical Sensitivity

Frequency (Hz)	Sensitivity (dB re V/Pa)
10	-45
100	-35
1000	-35
11000	-24
20000	-50

Sensitivity measured in a pressure cavity under the nominal conditions shown below:

Power Requirement					
Parameters	Unit	Minimum	Nominal	Maximum	Remarks
DC Power Supply	V	0.9	0.9	1.3	--

Performance						
Parameters		Unit	Minimum	Nominal	Maximum	Remarks
Sensitivity	100Hz	dB	-3.0	-1.0	1.0	re sensitivity at 1kHz
	1000Hz	dB	-38.0	-35.0	-32.0	dB re 1V/0.1Pa
	Peak	dB	7.5	10.5	13.5	re sensitivity at 1kHz
Peak Frequency		Hz	10000	11000	12500	
Output Load Voltage		V	0.45	0.55	0.65	Open Load (after settled)
Amplifier Current Drain		μA	22	38.0	48.0	--
A-Weighted Noise		dB SPL	--	26.0	28.0	Input referred noise re sensitivity at 1kHz.
Output Impedance		Ohms	3850	5100	6350	

Notes:

- Reflowed cup connected to negative terminal.
- Performance parameters are valid at 0.9 VDC. Typical test environment: 50% RH, 21°C (70°F).
- Port location - 12S

Knowles reserves the right to make changes to improve reliability and performance of the product.

Revision	C.O. #	Implementation Date	Release level	Revision
B	M10109648	1-24-23	Active	B
A	M10109598	12-13-22		

Knowles Corporation

When test limits are used to establish incoming inspection acceptance/rejection criteria, correlation of test equipment with Knowles is also required for elimination of equipment and test method variation.

Microphone
Performance Specification

MM20-34978-000

Sht 2.1

Dr by

HLD

Ck by

GJP

App by

GJP

Date

12-13-22

Date

12-15-22

Date

12-15-22

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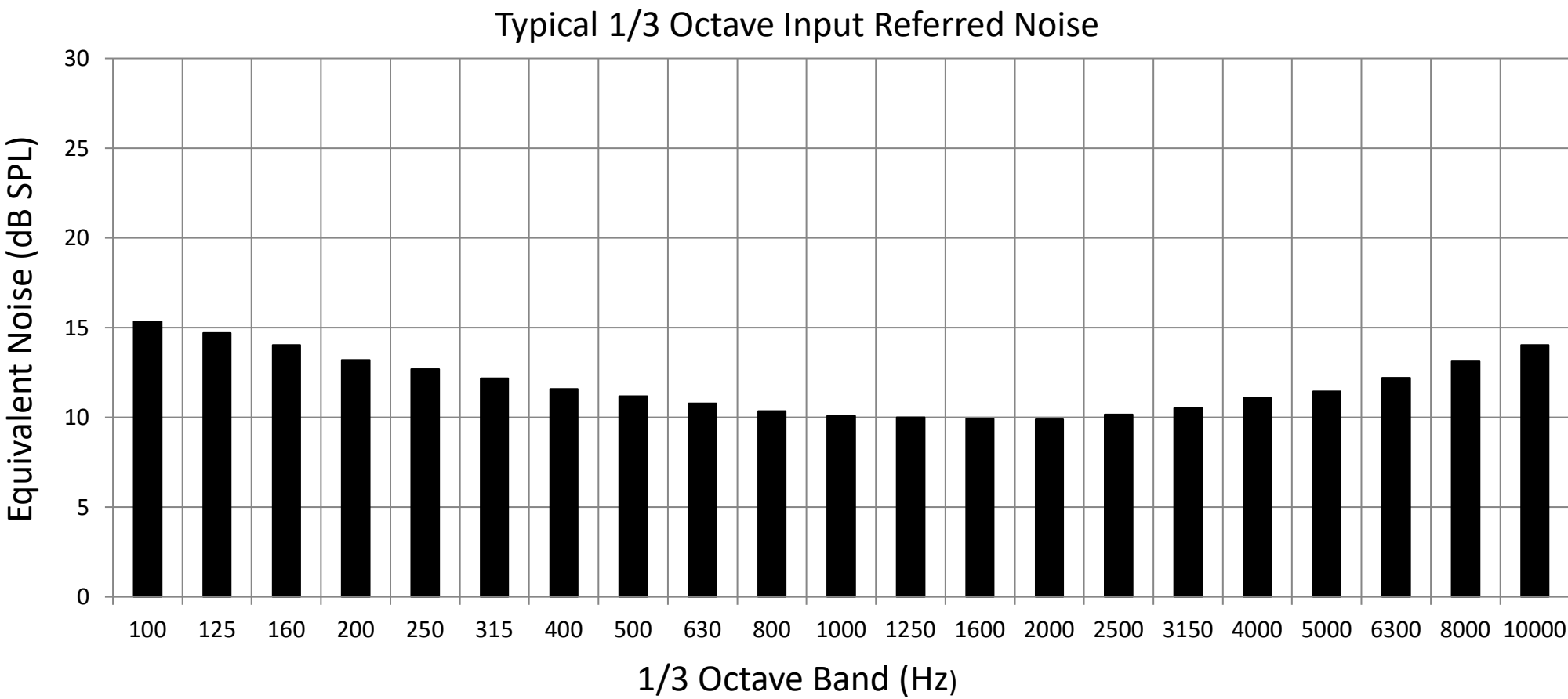
Template Revision A

Performance information in this sheet is only for reference purpose

MM20-34978-000

Sht 2.2

RoHS Compliant



Performance						
Parameters		Unit	Minimum	Nominal	Maximum	Remarks
Power Supply Rejection Ratio (PSRR)	1000Hz	dB	--	-32	-24	Supply voltage @ 0.9 VDC
Input Referred Vibration	1000Hz	dB SPL	--	50	56	Blocked port; 1g acceleration
Humidity Coefficient	1000Hz	dB	--	0.0	--	per %RH
Temperature Range	Operation	°C (°F)	-17(1.4)	--	63 (145)	
	Storage	°C (°F)	-40 (-40)	--	100 (212)	
ESD Tolerance	MIL-Std-750 Class 2 rating EOS/ESD-S5.I-1993 Class 2 rating					

Knowles reserves the right to make changes to improve reliability and performance of the product.

Revision	C.O. #	Implementation Date	Release level	Revision
			Active	B
B	M10109648	1-24-23		
A	M10109598	12-13-22		
When test limits are used to establish incoming inspection acceptance/rejection criteria, correlation of test equipment with Knowles is also required for elimination of equipment and test method variation.			Dr by	Date
			HLD	12-13-22
			Ck by	Date
			GJP	12-15-22
			App by	Date
Microphone Performance Specification			Sht 2.2	GJP
				12-15-22

Knowles Corporation

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